

Claims

[c1] What is claimed is:

1.A method of processing sound signals in a communication device, the communication device comprising a sound receiving unit, a storage unit, an processing unit, and a transceiving unit, the method comprising:

(a)receiving a first sound signal by using the sound receiving unit;

(b)processing the first sound signal and a second sound signal stored in the storage unit by using the processing unit; and

(c)sending the processed first sound signal and the processed second sound signal to the transceiving unit, so that a listener is capable of simultaneously listening the processed first sound signal and the processed second sound signal.

[c2] 2.The method of claim 1, wherein the communication device comprises a first sound volume controller, electrically connected with the sound receiving unit and the processing unit, the method further comprising adjusting magnitude of the first sound signal by using the first sound volume controller before performing step (b).

- [c3] 3.The method of claim 1, wherein the sound receiving unit is a microphone.
- [c4] 4.The method of claim 1, wherein the communication device comprises a second sound volume controller, electrically connected between the storage unit and the processing unit, the method further comprising adjusting magnitude of the second sound signal by using the second sound volume controller before performing the step (b).
- [c5] 5.The method of claim 2, wherein the communication device comprises an analog-to-digital converter, electrically connected between the storage unit and the first sound volume controller, for transforming an analog sound signal into a digital sound signal.
- [c6] 6.The method of claim 2, wherein the communication device comprises an analog-to-digital converter, electrically connected between the processing unit and the first sound volume controller, for transforming an analog sound signal into a digital sound signal.
- [c7] 7.The method of claim 1, wherein the communication device further comprises a sound-outputting unit, electrically connected to the processing unit, the method further comprising outputting the processed first sound

signal and the processed second sound signal to the sound-outputting unit.

- [c8] 8.The method of claim 7, wherein the sound-outputting unit is an amplifier.
- [c9] 9.A communication device for performing the method of claim 1.
- [c10] 10.A communication device comprising:
 - a sound receiving unit for receiving a first sound signal;
 - a storage unit for storing at least a second sound signal;
 - an processing unit, electrically connected to/between the sound receiving unit and the storage unit, for processing the first sound signal and the second sound signal; and
 - a transceiving unit, electrically connected to the processing unit, for outputting the processed first sound signal and the processed second sound signal.
- [c11] 11.The communication device of claim 10, further comprising a first sound volume controller, electrically connected with the sound receiving unit and the processing unit, for adjusting magnitude of the first sound signal.
- [c12] 12.The communication device of claim 11, further comprising an analog-to-digital converter, electrically connected between the storage unit and the first sound volume controller, for transforming an analog sound signal

into a digital sound signal.

- [c13] 13.The communication device of claim 11, further comprising an analog-to-digital converter, electrically connected between the processing unit and the first sound volume controller, for transforming an analog sound signal into a digital sound signal.
- [c14] 14.The communication device of claim 10, further comprising a second sound volume controller, electrically connected with the storage unit and the processing unit, for adjusting magnitude of the second sound signal.
- [c15] 15.The communication device of claim 10, further comprising a sound-outputting unit for outputting the processed first sound signal and the processed second sound signal.
- [c16] 16.The communication device of claim 15, wherein the sound-outputting unit is an amplifier.
- [c17] 17.The communication device of claim 10, further comprising a control interface for inputting a control signal.
- [c18] 18.The communication device of claim 10, wherein the sound receiving unit is a microphone.